



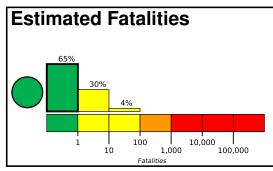


PAGER Version 4

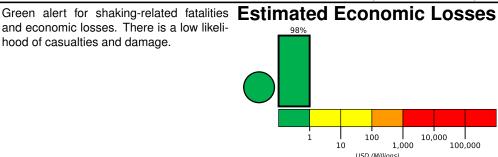
Created: 1 day, 0 hours after earthquake

M 5.6, 6 km WNW of Madrigal, Peru

Origin Time: 2021-10-09 04:47:50 UTC (Fri 23:47:50 local) Location: 15.5869° S 71.8603° W Depth: 24.5 km



and economic losses. There is a low likelihood of casualties and damage.



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	1,102k*	1,789k	36k	11k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

72.9 ciWa 71.8°W Progreso Yanaca Sicuani Cotaruse Santo Tomas Nunoa Layo Avaviri 15.2 ° S Orcopampa Chichas Llongasora Yanaquihua Z Lluta Aplao Atico 16.4° emana Mollendo

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2001-12-04	66	5.8	VI(32k)	2
1981-04-18	385	5.5	VI(193k)	8
2001-06-23	196	8.4	VIII(179k)	48

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org MMI City Population V١ Madrigal V١ Maca <1kV١ Tapay <1k۷I Lari <1kV١ Cabanaconde <1kV١ Yanque <1kΙV **Arequipa** 841k Ш Juliaca 246k Ш Sicuani 34k Ш Moquegua 55k Ш Puno 117k

bold cities appear on map.

(k = x1000)

https://earthquake.usgs.gov/earthquakes/eventpage/us6000ft6j#pager

Event ID: us6000ft6j